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Cartridge for on-line preparation of dialysis concentrate

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Patent Details:

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Abstract (Basic): *DE 19801107* A1

NOVELTY - The cartridge for the online preparation of a liquid has a rigid carrier section (1) and a flexible bag.

DETAILED DESCRIPTION - The carrier section (1) has at least one entry opening (2) for the solvent and one outlet opening (4) for the solution. The carrier (1) has a rod or tubular shape, with a central passage drilling (6) with the entry opening (2) and side channels (10) as branches through the carrier section (1) wall. A barrier (12) in the carrier section (1) is seated at the outlet opening (4), which is opened when the cartridge is in use. The barrier (12), in a tubular shape, is pressed by a spring (11) against the central drilling into the outlet opening (4), and it has side branch channels (14) through the wall of the carrier section (1). The bag is fitted to the upper and lower end of the carrier section (1), and has a truncated cone shape with its larger end wall near the entry opening (2) into the carrier (1). The two end walls of the bag have central openings for the projecting ends of the carrier section (1). The branch channels (14), directly and axially in front of the smaller end wall of the bag, run to the barrier (12) through the carrier (1) wall.

An INDEPENDENT CLAIM is included for the use of the cartridge, where the powder or granular solid material is drawn through the carrier section (1) and into the bag by an under-pressure or an over-pressure.

Preferred Features: The solid material is forced by an over-pressure into the entry opening of the carrier section, and drawn into the bag by an under-pressure. Alternatively, the solid material is introduced without pressure into the partially assembled cartridge.

USE - The cartridge is for the preparation of water or other solvent with a soluble powder or granular solid material, and especially as a basic bicarbonate dialysis concentrate for dialysis therapy.

ADVANTAGE - The cartridge gives a continuous and on-line preparation of the bicarbonate dialysis concentrate, without the wastage of disposable units.

DESCRIPTION OF DRAWING(S) - The drawing shows the rigid carrier section of the cartridge.

Carrier section (1)

Entry opening (2)
Outlet opening (4)
Central drilling (6)
Side channels from the drilling (10)
Spring (11)
Barrier (12)
Side channels from the barrier (14)
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Title Terms: CARTRIDGE; LINE; PREPARATION; DIALYSE; CONCENTRATE
Derwent Class: B06; D15; P34
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B01D-061/30; B01J-004/00
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